

FIG. 2A

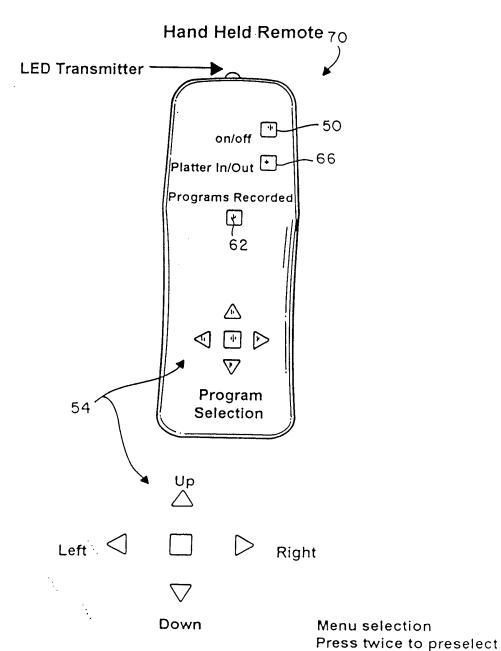


FIG. 3

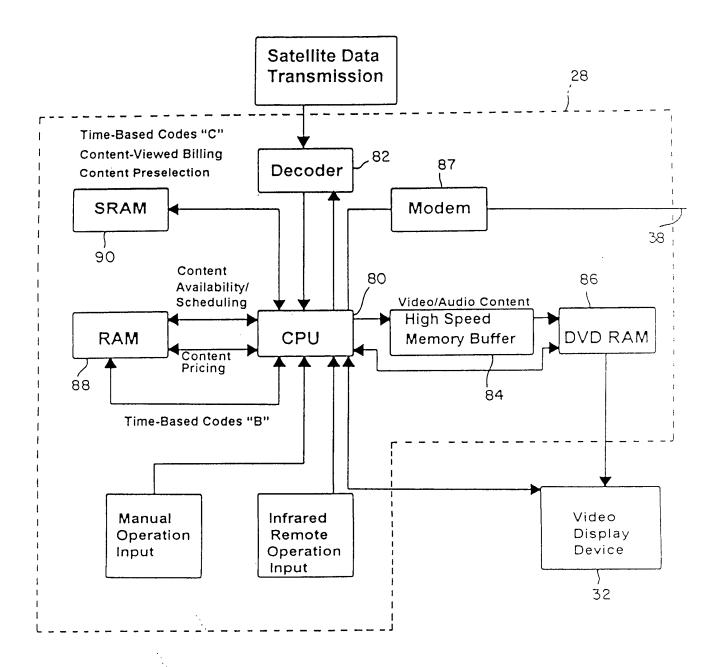


FIG.4

| | ł |
|--|-------------------|
| ☐ Programs Recorded ☐ Available Movies 1. New Releases ☐ Comedy ☐ Drama ☐ Action ☐ Documentary 2. Classics | ~100 F I G . 5 |

| SLOT | PROGRAM | |
|------|------------------------|-------|
| 1 | Blank Disc | 110 |
| 2 | "Return of the Jedi" |] |
| 3 | No Disc | |
| 4 | "To Sir with Love" | |
| 5 | Blank Disc | |
| 6 | "Sleepless in Seattle" | |
| 7 | "Dave" | |
| 8 | Blank Disc | FIG.6 |
| 9 | No Disc | |
| 10 | "True Grit" | |
| | | |

| | New | Releases/Com (20 Titles) | edy | 120 |
|---|----------|-----------------------------|---------|--------------|
| 1 | Title #1 | 120 mins. | PG | |
| 2 | Title #2 | 98 mins. | R | |
| 3 | Title #3 | 102 mins. | PG-13 | |
| 4 | Title #4 | 108 mins. | PG | |
| 5 | ·. | | | \bot FIG.7 |
| 6 | | | | |
| 7 | · | | | |
| 8 | + | + | | |

LEVEL I TIME-BASED SECURITY CODES

| А | В | С |
|---|--|--|
| One 32 bit code in each movie header X 12 months X 100 years = 1200 32 bit codes. | One 32 bit code for each month chosen at the beginning of each month and transmitted by DBS. | One 32 bit code delivered each month by phone/ modem with billing query from central controller system. C provided only when customer is in good standing. |

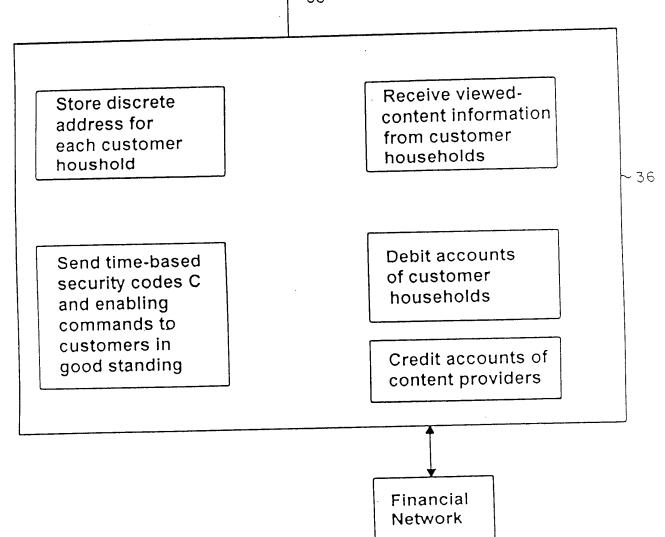


FIG.9

Video Distribution Billing Queries/Enabling Commands

FIG. 10

| Step | Mode Name | Description | Hardware Involved |
|------|-----------------------------------|--|---|
| | Account Setup | Happens when customer buys and hooks up The user station. | |
| 1 | Selection | Customer looks at recently updated "catalog' of available movie selections on his TV using the graphical user interface. Use remote to page through information. | User station, remote, customer TV, stored catalog |
| 2 | Ordering | Customer uses user station, remote and TV screen to order | User station, remote, customer TV |
| 3 | Downloading | Movies are downloaded during transmission hours as encrypted, compressed files through customer's satellite dish to hard disk in user station. | User station, satellite receiver |
| 4 | Viewing | Customer plays movie directly from hard drive with decryption/decompressing in real time. | User station, customer TV and speakers |
| 5 | Billing | Customer's account billed later by modem or Internet communication with central controller. | User station |
| 6 | Optional "Library" Movie Delivery | Full-quality movie on selected medium (e.g. DVD) that can be played on any DVD player is burned with watermark. | User station, DVD burner |

| Action Documentaries Romantic Comedy Foreign Language Science Fiction Musicals Westerns Combat Political Animated Family (G) Suspense | SELECT MOVIE | TYPE PREFERENCES |
|---|--|--|
| | Action Romantic Comedy Science Fiction Combat Animated | Documentaries Foreign Language Musicals Westerns Political |

Fig. 13

| | LEVEL A | NOUIE PREFER | RENCES |
|---|--|---|--|
| Favorite Movie Stars (Male) Mel Gibson Tom Honks | Favorite Movie Steirs (Female) Julia Roberts Meg Ryan | Favorite Directors George Lucas John Doe | Preferred Rating(s) G PG PG-13 R X |
| 1 | V | V | |

Fig. 14

Promotion-based Streaming

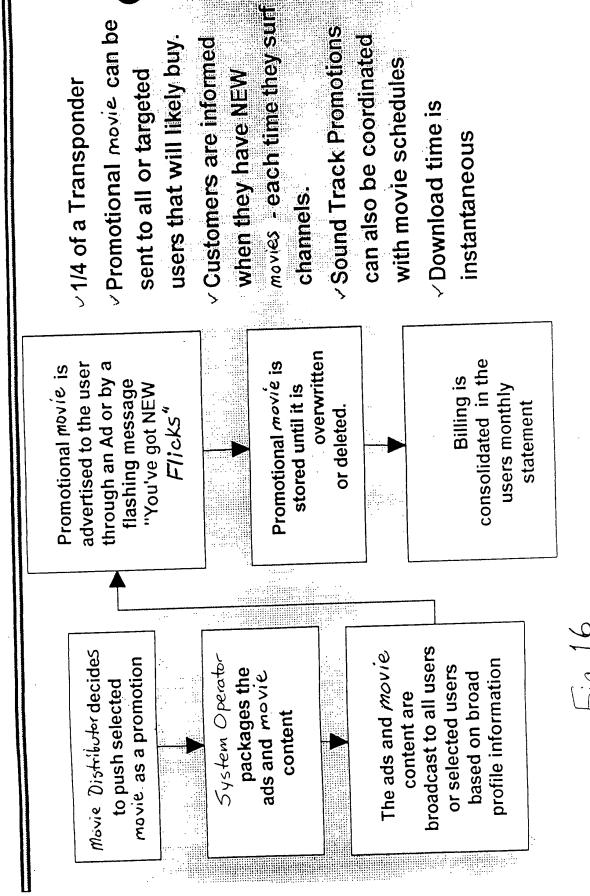


Fig. 16

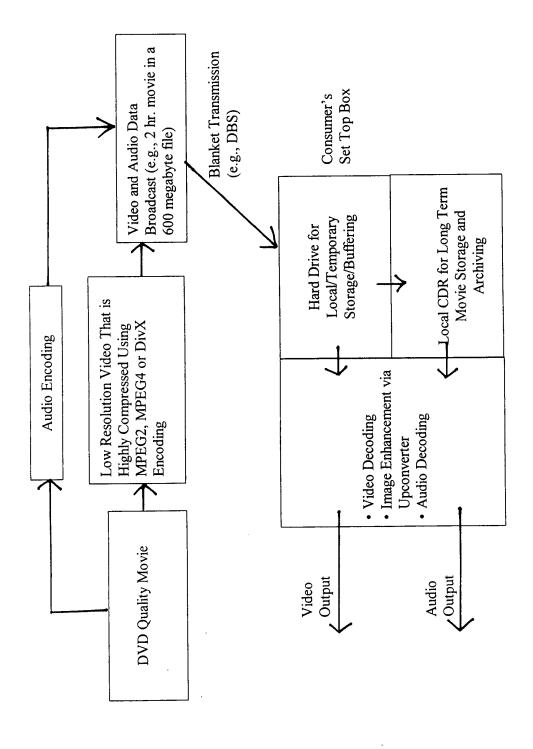
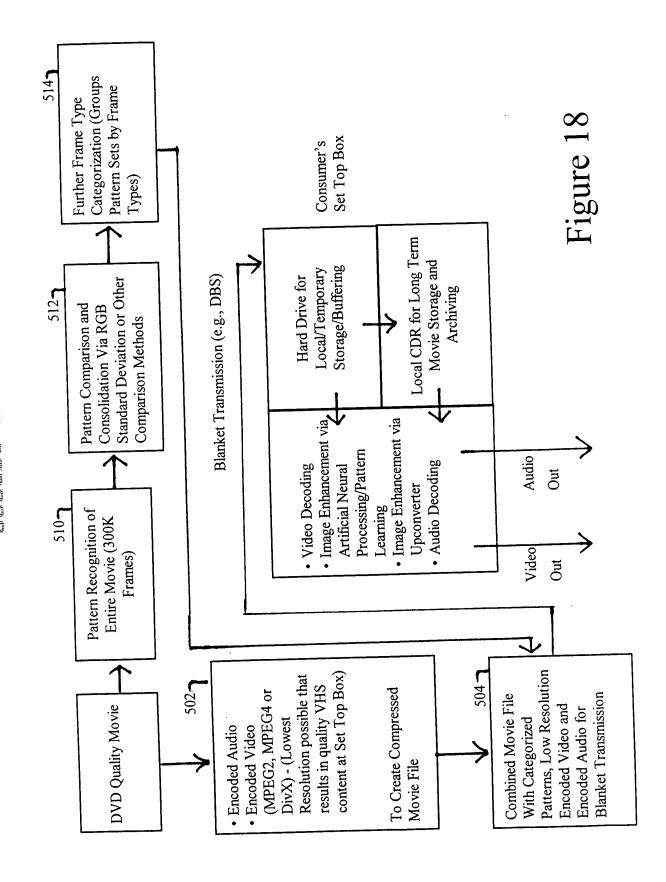


Figure 17



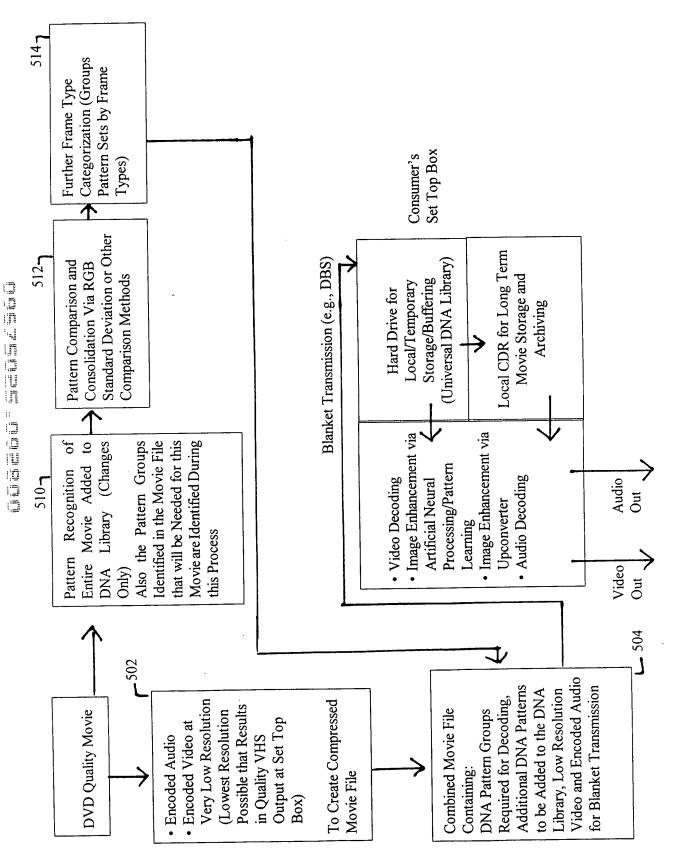
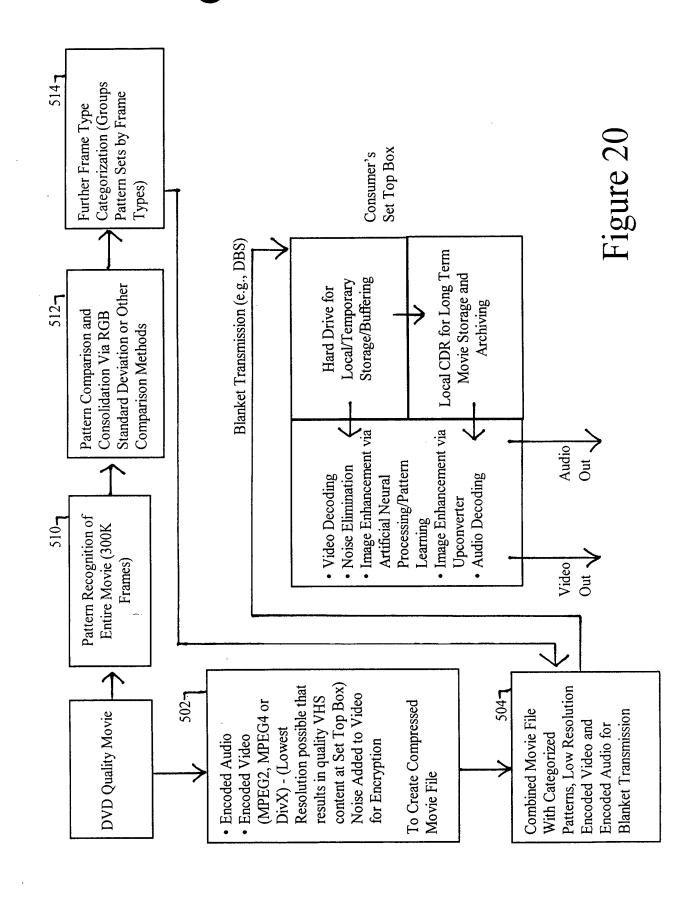


Figure 19

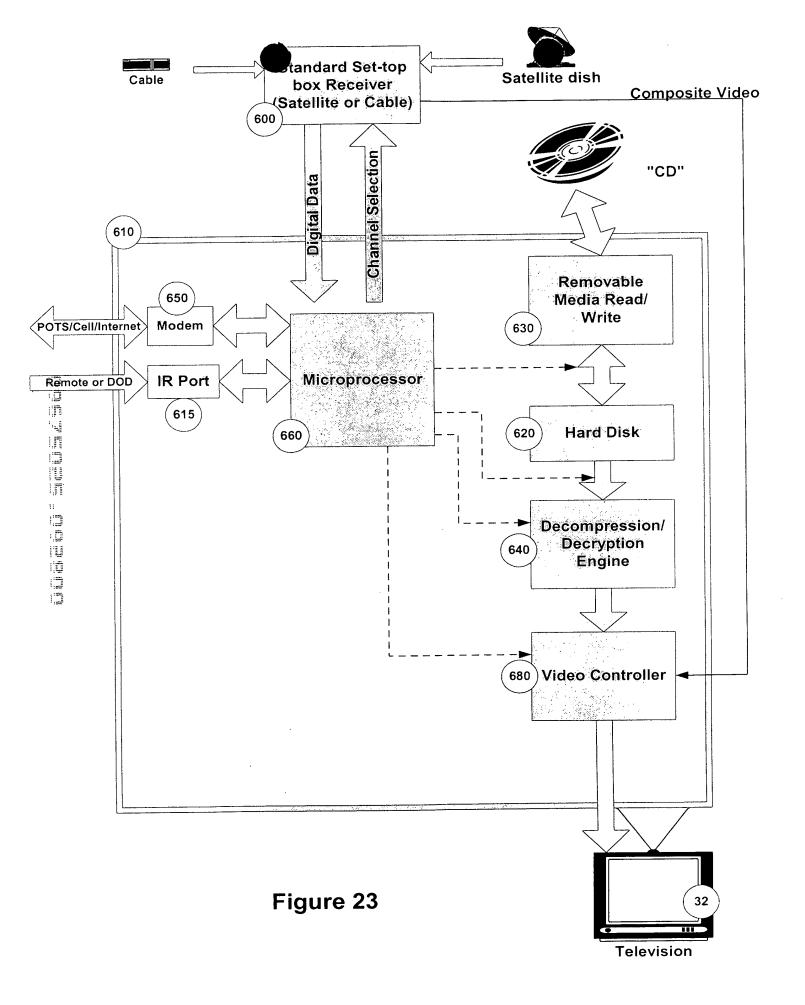


| | DNA Pa | DNA Pattern Library | | |
|---|---|---|---|--|
| Frame Group I | Frame Group 2 | Frame Group 3 | Frame Group n | |
| Pattern 1 Pattern 2 Pattern 3 • • Pattern N | Pattern 1 Pattern 2 Pattern 3 • • Pattern N | Pattern 1 Pattern 2 Pattern 3 • • Pattern N | Pattern 1 Pattern 2 Pattern 3 • Pattern N | |
| | F | Figure 21 | | |

Video Content File

- Required Frame Groups: 1, 4, 7, 9, ... n
 Additional Patterns to be Added to DNA Library Groups
 Highly Compressed/Noise Added Video File

Figure 22



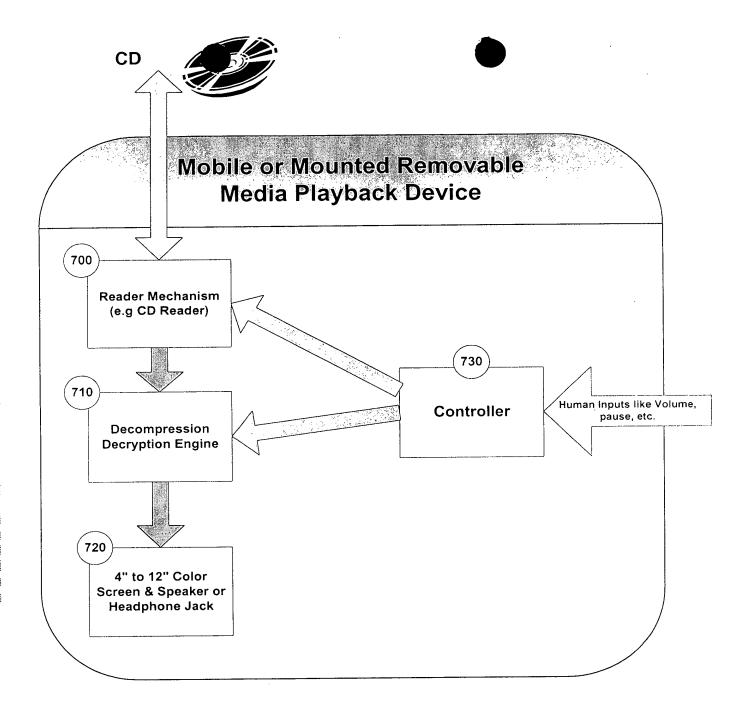
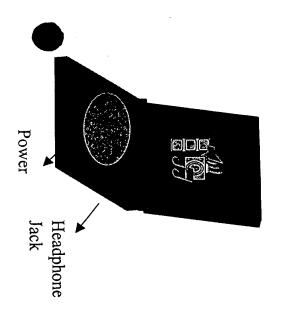


Figure 25



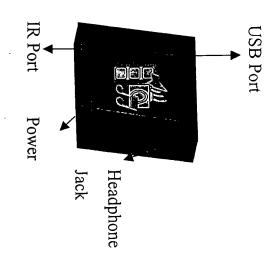
Mobile Player

Fig. 26

Seat Back
Or Dashboard

Mounted Player

Fig. 27



Hard Drive Player

Fig. 28